

Symulacja Monte Carlo modelu Isinga

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Kierunek:	Matematyka Stosowana

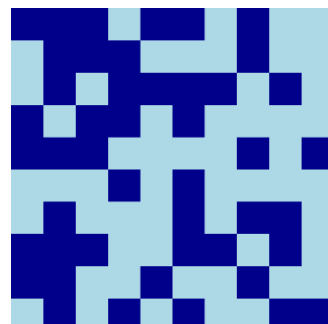
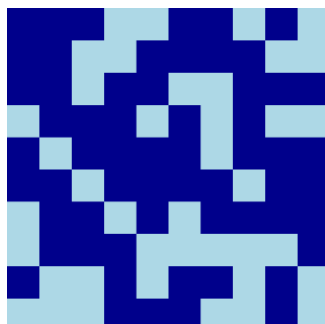
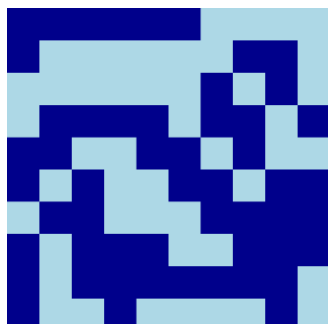
Konfiguracje spinów dla $L = 10$

$T^* = 1$

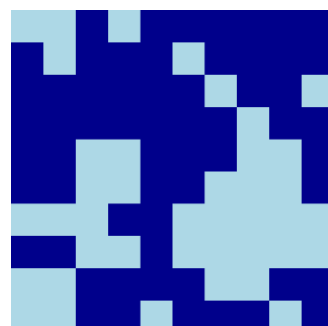
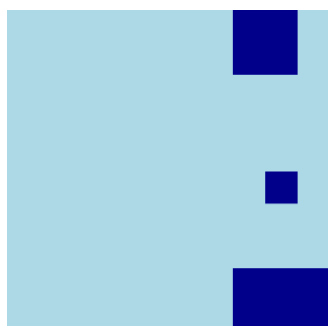
$T^* = 2,26$

$T^* = 4$

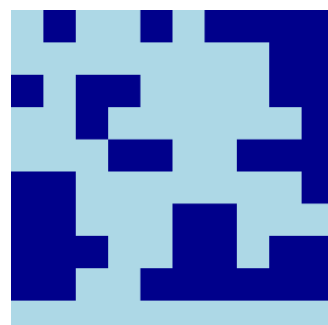
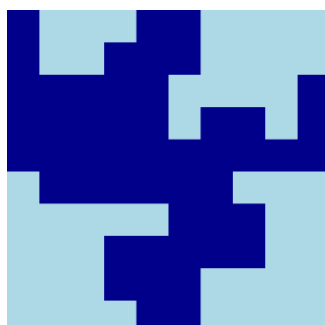
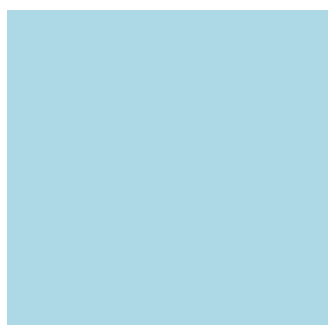
0 MCS



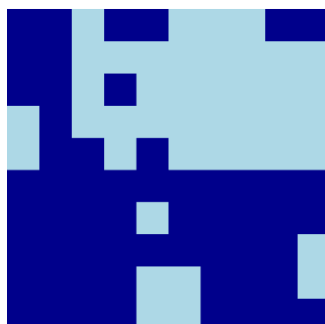
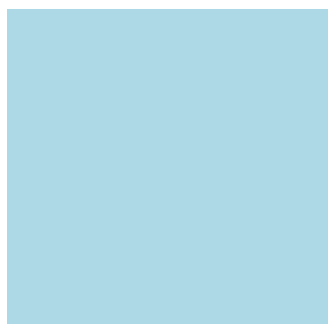
500 MCS



1000 MCS



1500 MCS



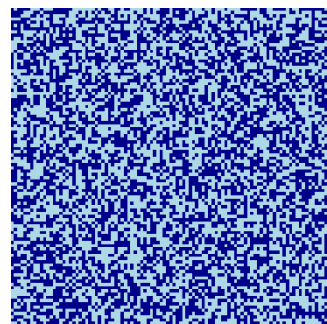
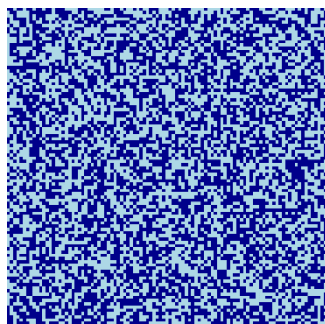
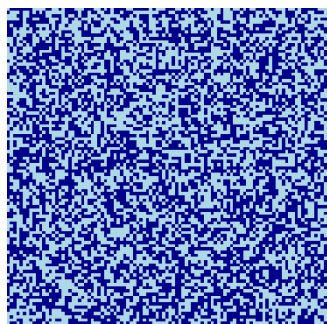
Konfiguracje spinów dla $L = 100$

$T^* = 1$

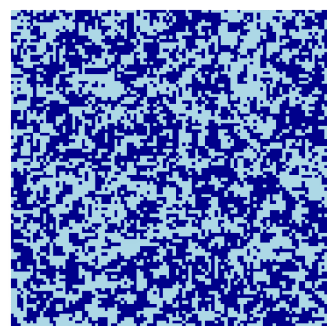
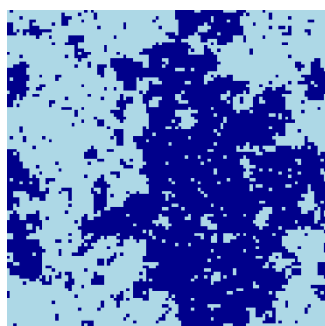
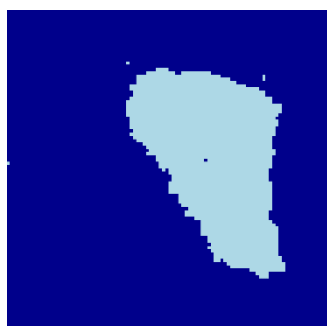
$T^* = 2,26$

$T^* = 4$

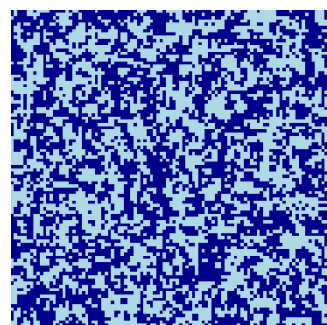
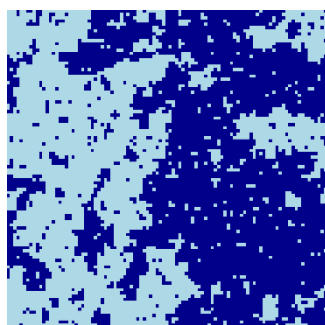
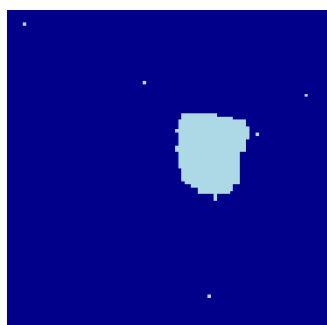
0 MCS



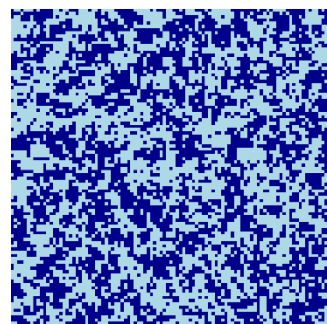
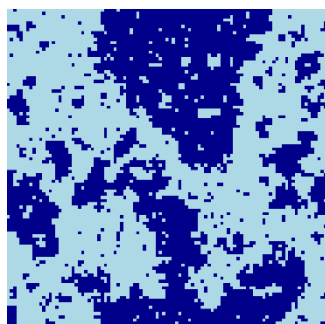
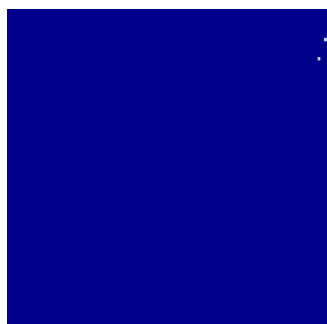
500 MCS



1000 MCS

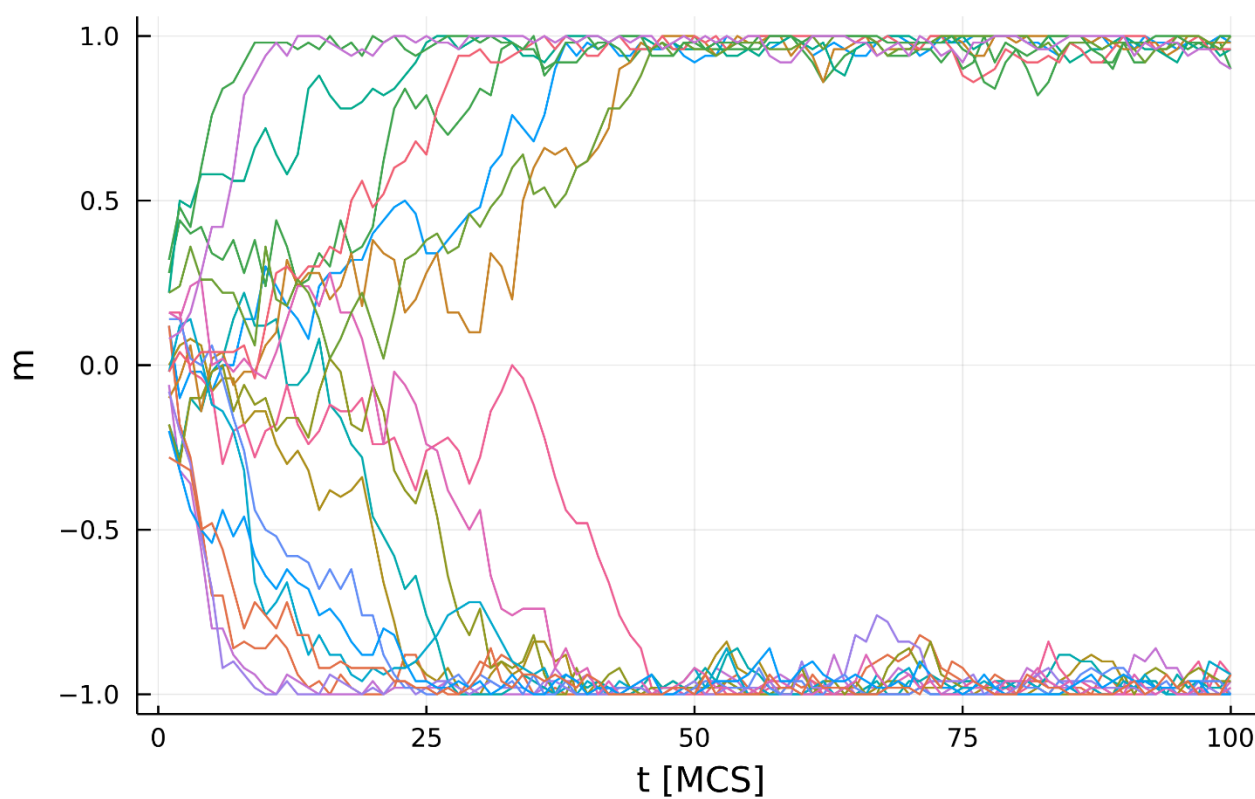


1500 MCS

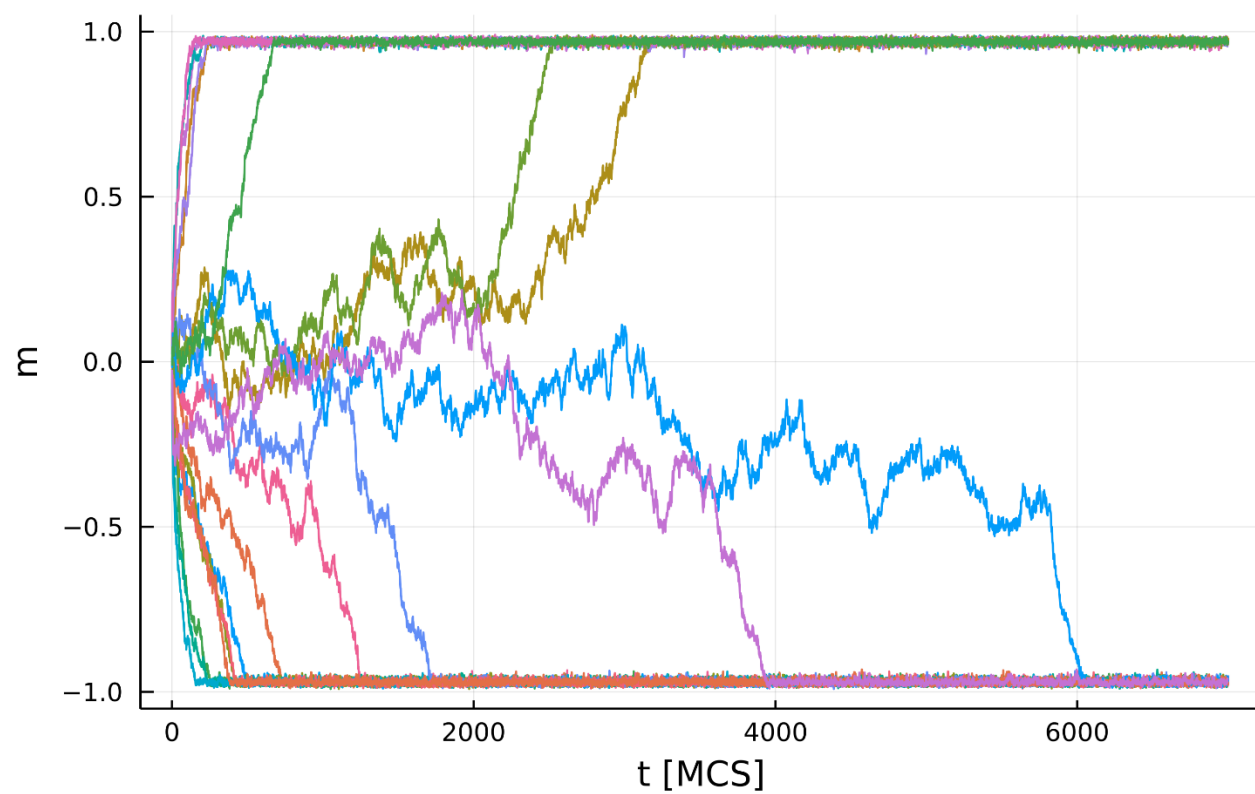


Trajektorie dla $T^* = 1,7$

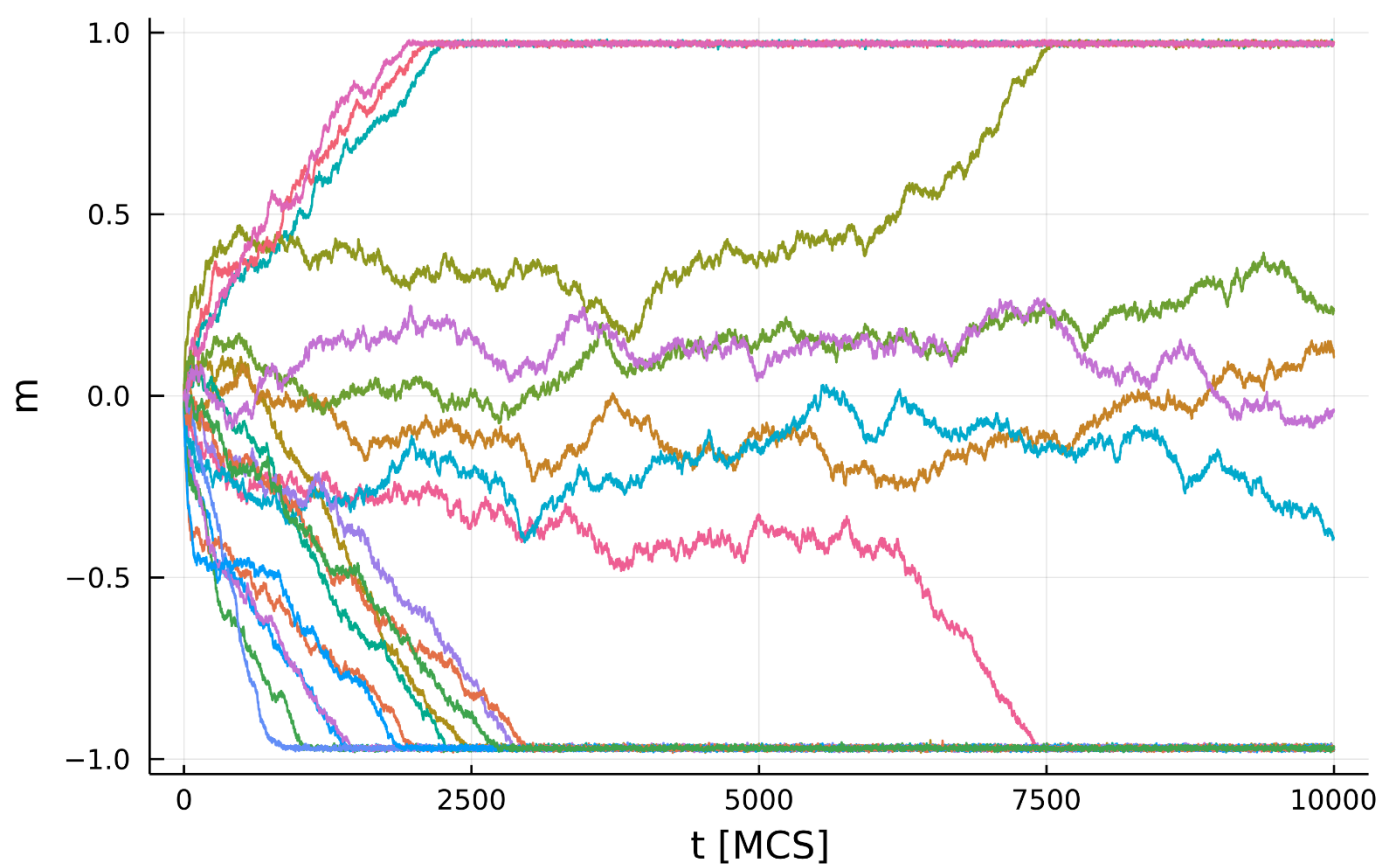
$L = 10$



$L = 50$



$L = 100$



Wykresy magnetyzacji oraz podatności magnetycznej od temperatury

Symulacje przeprowadzone zostały dla T^* z zakresu $[1, 3.5]$ z dokładnością 0.1 przy czym dla T^* z zakresu $[2, 2.5]$ dokładność została zwiększona do 0.05 dla zagęszczenia pomiarów.

